ATCC

Product Sheet

Propionispora hippei (ATCC® BAA-665™)

Please read this FIRST

Biosafety Level
1

Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Propionispora hippei* (ATCC® BAA-665™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Designation: KS [DSM 15287]

Propagation

Medium
ATCC® Medium 1754: PETC medium

Growth Conditions
Temperature: 30.0°C
Atmosphere: Anaerobic

Propagation Procedure
1. Sterilize the top of the Balch tube by spraying it with 70% ethanol and then flaming the top.
2. If the medium is pink (see discussion about resazurin) add one drop of reducing agent (1.5% sodium sulfide stock solution) for each one or two ml of medium. Let the medium sit at room temperature for 10 to 20 minutes, until the resazurin becomes colorless, before inoculating.
3. Open the freeze-dried vial according to the enclosed instructions. Take an anaerobic (*anaerobic conditions D below*) 1.0 ml syringe tipped with 22-gauge needle and withdraw 0.5 ml of medium from the Balch tube and rehydrate the freeze dried pellet. Immediately place the re-hydrated vial under a stream of sterile gas, 80% N_2-20% CO_2 to maintain anaerobicity.
4. Using the same syringe, withdraw the cell suspension from the vial and transfer it to the Balch tube. Inoculate a second pre-reduced tube of medium with 0.5 ml of the rehydrated culture. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 30ºC. Incubate the broth tube at 30ºC.
5. Growth should be detected in the broth within 24 to 48 hours. No growth should be detected on the aerobic plate or broth.

ANAEROBIC CONDITIONS: :

A. Balch tubes (available from Bellco Glass, Vineland, NJ; are specially designed for anaerobic work and use an aluminum crimp cap to hold a rubber stopper in place. Needles can easily be inserted through the stopper, and the tubes can be pressurized to 2 atm. Alternatively, serum vials may be used, or screw cap tubes with butyl rubber stoppers, in the latter case the stopper may be removed and the tube placed under a cannula system that dispenses sterile, oxygen free gas for addition of reducing agents or inoculation.

B. Resazurin is a commonly used redox indicator that is pink when the redox potential is above 50 mv, and colorless when the redox potential is below 110 mv. i.e. highly reducing. Most strict anaerobes require this low redox potential for optimum growth.

C. To obtain a fully reduced medium, it is necessary that the medium be anoxic and that a reducing agent be added. Common reducing agents are sodium sulfide, cysteine, dithiothreitol, and titanium citrate.

D. Syringes can be made anaerobic by one of two methods.
   1. Displace the dead space in the syringe with a sterile
   2. Displace the dead space in the syringe with a reducing agent.

Notes

Cells are slightly curved rods. Spores are round, terminal and swell the cells. Grows on a number of carbon sources such as glucose and mannitol.

Additional information on this culture is available on the ATCC web site at www.atcc.org.

References

References and other information relating to this product are available online at www.atcc.org.

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

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The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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